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*** YOU HAVE NEW MAIL ***

=> s IL-li? or irap or (interleukin-l receptor antagonist) or (interleukin-l inhibitor)

L1 3023 IL-11? OR IRAP OR (INTERLEUKIN-1 RECEPTOR ANTAGONIST) OR (INTERLEUKIN-1 INHIBITOR)

=> s IL-1i? or irap or (interleukin-1 receptor antagonist)

L2 2790 IL-11? OR IRAP OR (INTERLEUKIN-1 RECEPTOR ANTAGONIST)

=> s 11 not py>1991

- 1 FILES SEARCHED...
- 2 FILES SEARCHED...
- 3 FILES SEARCHED...

L3 336 L1 NOT PY>1991

=> dup rem 13

PROCESSING COMPLETED FOR L3

L4 192 DUP REM L3 (144 DUPLICATES REMOVED)

● ORDERED 1/23/98 ●

L4 ANSWER 13 OF 192 MEDLINE

DUPLICATE 5

AU Eisenberg S P; Brewer M T; Verderber E; Heimdal P; Brandhuber B J; Thompson R C

TI Interleukin 1 receptor antagonist is a member of the interleukin 1 gene family: evolution of a cytokine control mechanism.

SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1991 Jun 15) 88 (12) 5232-6.

Journal code: PV3. ISSN: 0027-8424.

L4 ANSWER 17 OF 192 MEDLINE

DUPLICATE 7

- AU Zahedi K; Seldin M F; Rits M; Ezekowitz R A; Whitehead A S
- TI Mouse IL-1 receptor antagonist protein. Molecular characterization, gene mapping, and expression of mRNA in vitro and in vivo.
- SO JOURNAL OF IMMUNOLOGY, (1991 Jun 15) 146 (12) 4228-33. Journal code: IFB. ISSN: 0022-1767.
- L4 ANSWER 19 OF 192 MEDLINE

DUPLICATE 8

- AU Haskill S; Martin G; Van Le L; Morris J; Peace A; Bigler C F; Jaffe G J; Hammerberg C; Sporn S A; Fong S; et al
- TI cDNA cloning of an intracellular form of the human interleukin 1 receptor antagonist associated with epithelium.
- SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1991 May 1) 88 (9) 3681-5.

 Journal code: PV3. ISSN: 0027-8424.
- L4 ANSWER 22 OF 192 MEDLINE

DUPLICATE 10

- AU Shuck M E; Eessalu T E; Tracey D E; Bienkowski M J
- TI Cloning, heterologous expression and characterization of murine interleukin 1 receptor antagonist protein.
- SO EUROPEAN JOURNAL OF IMMUNOLOGY, (1991 Nov) 21 (11) 2775-80. Journal code: EN5. ISSN: 0014-2980.
- L4 ANSWER 23 OF 192 MEDLINE

DUPLICATE 11

- AU Ju G; Labriola-Tompkins E; Campen C A; Benjamin W R; Karas J; Plocinski J; Biondi D; Kaffka K L; Kilian P L; Eisenberg S P; et al
- TI Conversion of the interleukin 1 receptor antagonist into an agonist by site-specific mutagenesis.
- PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1991 Apr 1) 88 (7) 2658-62.

 Journal code: PV3. ISSN: 0027-8424.
- L4 ANSWER 32 OF 192 MEDLINE

DUPLICATE 17

- AU Arend W P
- TI Interleukin 1 receptor
 - antagonist. A new member of the interleukin 1 family.
- SO JOURNAL OF CLINICAL INVESTIGATION, (1991 Nov) 88 (5) 1445-51. Ref: 65
 Journal code: HS7. ISSN: 0021-9738.
- L4 ANSWER 41 OF 192 MEDLINE

DUPLICATE 24

- AU Mclatyre K/W; Stepan G J; Kolinsky K D; Benjamin W R; Plocinski J M; Kaffka K L; Campen C A; Chizzonite R A; Kilian P L
- TI Inhibition of interleukin 1 (IL-1) binding and bioactivity in vitro and modulation of acute inflammation in vivo by IL-1 receptor antagonist and anti-IL-1 receptor monoclonal antibody.

- JOURNAL OF EXPERIMENTAL MEDICINE, (1991 Apr 1) 173 (4) 931-9. Journal code: I ISSN: 0022-1007. ŞO ANSWER 43 OF 192 MEDLINE L4**DUPLICATE 25** Matsushime H; Roussel M F; Matsushima K; Hishinuma A; Sherr C J ΑU Cloning and expression of murine interleukin-1 ΤI receptor antagonist in macrophages stimulated by colony-stimulating factor 1. BLOOD, (1991 Aug 1) 78 (3) 616-23. so Journal code: A8G. ISSN: 0006-4971. L4ANSWER 44 OF 192 MEDLINE DUPLICATE 26 Licinio J; Wong M L; Gold P W ΤI Localization of interleukin-1 receptor antagonist mRNA in rat brain. SO ENDOCRINOLOGY, (1991 Jul) 129 (1) 562-4. Journal code: EGZ. ISSN: 0013-7227. ANSWER 45 OF 192 MEDLINE L4DUPLICATE 27 Conti P ΑU ΤI Interleukin-1 (IL-1) and interleukin-1 receptor antagonist (IL-1ra). ANNALES DE MEDECINE INTERNE, (1991) 142 (7) 521-5. Ref: 48 SO Journal code: 5FZ. ISSN: 0003-410X.
- L4 ANSWER 48 OF 192 MEDLINE
- AU Opp M Krueger J M
- TI Interleukin 1-receptor antagonist blocks interleukin 1-induced sleep and fever.
- SO AMERICAN JOURNAL OF PHYSIOLOGY, (1991 Feb) 260 (2 Pt 2) R453-7. Journal code: 308. ISSN: 0002-9513.

L4 ANSWER 64 OF 192 MEDLINE DUPLICATE 38
AU Lin T; Guo H; Calkins J H; Wang D; Chi R
TI Recombinant monocyte-derived interleukin-1

receptor antagonist reverses inhibitory effects of interleukin-1 on Leydig cell steroidogenesis.

- SO MOLECULAR AND CELLULAR ENDOCRINOLOGY, (1991 Jul) 78 (3) 205-9. Journal code: E69. ISSN: 0303-7207.
- L4 ANSWER 73 OF 192 MEDLINE DUPLICATE 42
 AU Conti P; Reale M; Panara M R; Barbacane R C; Bongrazio M; Dempsey R
- TI Human recombinant interleukin-1 receptor antagonist inhibits lymphocyte blastogenesis induced by concanavalin A. Restorative effect of hrIL-1.
- SO FEBS LETTERS, (1991 Jul 29) 286 (1-2) 137-41. Journal code: EUH. ISSN: 0014-5793.
- L4 ANSWER 79 OF 192 CAPLUS COPYRIGHT 1998 ACS
- AU Pae, Yun Soo
- TI Interleukin 1 inhibitor factor
- SO Saenghwahak Nyusu (1991), 11(2), 108-11 CODEN: SANYEZ; ISSN: 1016-0884
- L4 ANSWER 87 OF 192 MEDLINE DUPLICATE 47
- AU Conti P; Reale M; Barbacane R C; Panara M R; Bongrazio M; Dempsey R A; Dinarello C A
- TI Reduced mitogen stimulation of DNA synthesis in human lymphocytes by a human recombinant interleukin-1 receptor antagonist.
- SO IMMUNOLOGY LETTERS, (1991 Apr) 28 (1) 19-25. Journal code: GIH. ISSN: 0165-2478.
- L4 ANSWER 90 OF 19% CAPLUS COPYRIGHT 1998 ACS
- AU Sporn, Sarah Ann
- Modulation of monocyte/macrophage mRNA expression in the inflammatory response: effects of the microenvironment and isolation of novel cDNA clones induced by adherence
- SO (1990) 152 pp. Avail. Univ. Microfilms Int., Order No. DA9034759 From: Diss. Abstr. Int. 8 1991, 51(7), 3258-9
- L4 ANSWER 97 OF 192 MEDLINE DUPLICATE 49
- AU Seckinger P; Klein-Nulend J; Alander C; Thompson R C; Dayer J M; Raisz L G
- Natural and recombinant human IL-1 receptor antagonists block the effects of IL-1 on bone resorption and prostaglandin production.
- SO JOURNAL OF IMMUNOLOGY, (1990 Dec 15) 145 (12) 4181-4. Journal code: IFB. ISSN: 0022-1767.
- L4 ANSWER 99 OF 192 MEDLINE DUPLICATE 51
- AU Arend W P; Welgus H G; Thompson R C; Eisenberg S P
- TI Biological properties of recombinant human monocyte-derived interleukin 1 receptor antagonist.
- JOURNAL OF CLINICAL INVESTIGATION, (1990 May) 85 (5) 1694-7. Journal code: HS7. ISSN: 0021-9738.
- L4 ANSWER 104 OF 192 MEDLINE DUPLICATE 54
- AU Carter D B; Deibel M R Jr; Dunn C J; Tomich C S; Laborde A L;

Slightom J L; Berger A E; Bienkowski M J; Sun F F; McEwan R N; et al Purification, ding, expression and biological aracterization of ing, expression and biological Purification, d aracterization of TIan interleukin-1 receptor antagonist protein [see comments].

NATURE, (1990 Apr 12) 344 (6267) 633-8. SO Journal code: NSC. ISSN: 0028-0836.

ANSWER 111 OF 192 MEDLINE L4

DUPLICATE 57

- Eisenberg S P; Evans R J; Arend W P; Verderber E; Brewer M T; Hannum ΑU C H; Thompson R C
- Primary structure and functional expression from complementary DNA ΤI of a human interleukin-1 receptor antagonist.
- NATURE, (1990 Jan 25) 343 (6256) 341-6. SO Journal code: NSC. ISSN: 0028-0836.
- L4ANSWER 118 OF 192 MEDLINE

DUPLICATE 61

DUPLICATE 70

Arend W P ΑU

Interleukin-1 receptor TI

antagonist: discovery, structure and properties.

PROGRESS IN GROWTH FACTOR RESEARCH, (1990) 2 (4) 193-205. Ref: 59 SO Journal code: A6S. ISSN: 0955-2235.

ANSWER (128) OF 192 MEDLINE L4DUPLICATE 62

Shields J; Bernasconi L M; Benotto W; Shaw A R; Mazzei G J ΑU

Production of a 26,000-dalton interleukin 1 TIinhibitor by human monocytes is regulated by granulocyte-macrophage colony-stimulating factor.

CYTOKINE, (1990 Mar) 2 (2) 122-8. SO Journal code: A52. ISSN: 1043-4666.

ANSWER 130 OF 192 CAPLUS COPYRIGHT 1998 ACS L4

- Hannum Charles H.; Eisenberg, Stephen P.; Thompson, Robert C.; IN Arend, William P.; Joslin, Fenneke G.; Sommer, Andreas
- Interleukin-1 inhibitors of human, their purification and cDNA TIcloning
- Eur. Pat. Appl., 53 pp. SO CODEN: EPXXDW
- L4ANSWER 131 OF 192 MEDLINE
- ΑIJ Seckinger P; Isaaz S; Dayer J M
- TIPurification and biologic characterization of a specific tumor necrosis factor alpha inhibitor.
- JOURNAL OF BIOLOGICAL CHEMISTRY, (1989 Jul 15) 264 (20) 11966-73. SO Journal code: HIV. ISSN: 0021-9258.
- L4ANSWER 147 OF 192 MEDLINE

ΑU Rosenstreich D L; Tu J H; Kinkade P R; Maurer-Fogy I; Kahn J; Barton R W; Farina P R

TI A human urine-derived interleukin 1 inhibitor. Homology with deoxyribonuclease I.

- SO JOURNAL OF EXPERIMENTAL MEDICINE, (1988 Nov 1) 168 (5) 1767-79. Journal code: I2V. ISSN: 0022-1007.
- ANSWER 180 OF 192 MEDLINE L4DUPLICATE 83
- AU Berman M A; Sandborg C I; Calabia B S; Andrews B S; Friou G J
- Studies of an interleukin 1 inhibitor: TIcharacterization and clinical significance.
- SO CLINICAL AND EXPERIMENTAL IMMUNOLOGY, (1986 Apr) 64 (1) 136-45. Journal code: DD7. ISSN: 0009-9104.
- ANSWER 184 OF 192 MEDLINE L4DUPLICATE 84
- ΑU Liao Z; Haimovitz A; Chen Y; Chan J; Rosenstreich D L
- ΤI Characterization of a human interleukin 1 inhibitor.

SO JOURNAL OF IMMUNCLOGY, (1985 Jun) 134 (6) 3882-6 Journal code: ISSN: 0022-1767.

#type complete ENTRY interleukin-1 receptor antagonist secreted form precursor -TITLE human ORGANISM #formal name Homo sapiens #common name man 07-Jun-1990 #sequence_revision 07-Jun-1990 #text_change DATE 23-May-1997 ACCESSIONS A40956; I37894; A30368; S08160; S08159; A37822 REFERENCE Eisenberg, S.P.; Brewer, M.T.; Verderber, E.; Heimdal, P.; #authors Brandhuber, B.J.; Thompson, R.C. Proc. Natl. Acad. Sci. U.S.A. (1991) 88:5232-5236 #journal Interleukin 1 receptor antagonist is a member of the #title interleukin 1 gene family: evolution of a cytokine control mechanism. #cross-references MUID:91271363 #accession A40956 ##molecule type DNA ##residues 1-177 ##label EIS ##cross-references GB:M63099 REFERENCE I37894 Lennard, A.; Gorman, P.; Carrier, M.; Griffiths, S.; Scotney, #authors H.; Sheer, D.; Solari, R. Cytokine (1992) 4:83-89 #journal #title Cloning and chromosome mapping of the human interleukin-1 receptor antagonist gene. #cross-references MUID:92338323 #accession I37894 ##status translated from GB/EMBL/DDBJ ##molecule_type DNA ##residues 1-177 ##label LEN ##cross-references EMBL:X64532; NID:g33798; CDS PID:g33799 REFERENCE A30368 Carter, D.B.; Deibel Jr., M.R.; Dunn, C.J.; Tomich, C.S.C; et #authors al. Nature (1990) 344:633-638 #journal #title Purification, cloning, expression and biological characterization of an interleukin-1 receptor antagonist protein. #cross-references MUID:90220867 A30368 #accession ##molecule type mRNA ##residues 1-177 ##label CAR ##cross-references GB:X53296 ##note parts of this sequence, including the amino end of the mature protein, were confirmed by peptide sequencing REFERENCE #authors Eisenberg, S.P.; Evans, R.J.; Arend, W.P.; Verderber, E.; Brewer, M.T.; Hannum, C.H.; Thompson, R.C. #journal Nature (1990) 343:341-346 #title Primary structure and functional expression from complementary DNA of a human interleukin-1 receptor antagonist. #cross-references MUID:90136921 #accession S08160

##status

not compared with conceptual translation

##molecule_type mRNA

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1-177 ##label EI2

REFERENCE

S08159

#authors

Hannum, C.H.; Wilcox, C.J.; Arend, W.P.; Joslin, F.G.;

Dripps, D.J.; Heimdal, P.L.; Armes, L.G.; Sommer, A.;

Eisenberg, S.P.; Thompson, R.C.

#journal

Nature (1990) 343:336-340

#title

Interleukin-1 receptor antagonist activity of a human

interleukin-1 inhibitor.

#cross-references MUID:90136920

#accession

S08159

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26-75;97-108;110-116;120-131;163-176 ##label HAN

REFERENCE

A37822

#authors

Bienkowski, M.J.; Eessalu, T.E.; Berger, A.E.; Truesdell, et

al.

#journal

J. Biol. Chem. (1990) 265:14505-14511

#title

Purification and characterization of interleukin 1 receptor

level antagonist proteins from THP-1 cells.

Kaufman, Claire

From:

Kaufman, Claire

Sent:

Friday, January 23, 1998 9:25 AM

To:

STIC-FPAS

Subject:

pat req. 08482283

Foreign Patent REQUEST

Examiner: Claire Kaufman Art Unit: 1812

Phone: 305-5791

S.N.: 08/482,283

Date: 1/23/98

country:

WO #9117249

WO #9117184

EP #343684-A (pub. date 29-Nov-1989 please)

Thanks, Claire

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     R15262 standard; Protein; 159 AA.
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DT
     13-FEB-1992 (first entry)
DE
     Variant Il-1 cytokine inhibitor.
     Intracellular; Interleukin-1; cancer; immunosuppressive.
KW
OS
     Homo sapiens.
     WO9117249-A.
PN
     14-NOV-1991.
PD
PF
     10-APR-1991; UO2460.
     01-MAY-1990; US-517276.
PR
     (CETU ) CETUS CORP.
PA
     (UYNC-) UNIV NORTH CAROLINA.
PA
ΡI
    Haskill JS, Martin G, Ralph P.
DR
    WPI; 91-353770/48.
    N-PSDB; Q14843.
DR
PT
    New Interleukin-1 antagonists - used to diagnose conditions
PT
    mediated by IL-1 and to treat and prevent sepsis and cancer
PS
    Claim 7; Fig 2; 42pp; English.
    The amino acid sequence is that of an intracellular protein having
CC
    cytokine inhibitory activity, it is a variant interleukin-1 (IL-1)
CC
    cytokine inhibitor. The DNA encoding the inhibitor can be used to
CC
CC
    determine the number of copies of the inhibitor gene present per
CC
    cell in various types of cancers and so measure the degree of over-
    amplification. The inhibitor can be administered to patients at high
CC
CC
    risk of developing sepsis or who have already developed it. It may
CC
    also have immunosuppressive effects against rheumatoid arthritis.
SO
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                      100.0%; Score 1109; DB 3; Length 159;
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PN
PD
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PF
     03-APR-1991; U02127.
PR
     27-APR-1990; US-515468.
    (UPJO ) UPJOHN CO.
PA
PΙ
    Carter DB;
DR
    WPI; 91-353724/48.
DR
    N-PSDB; Q14693.
PΤ
    New DNA molecules are modified Interleukin-1 inhibitors -
PT
    comprising an IL-1 receptor antagonist protein and a Sclavo
PT
    protein, useful for treating arthritis
PS
    Disclosure; Page 25; 29pp; English.
CC
    In order to construct improved Interleukin-1 Receptor Agonist
    Protein (IRAP), manipulations are performed on the IRAP gene to
CC
CC
    insert oligonucleotides (Q14690-92) that encode a Sclavo peptide
CC
    into the appropriate region of the IRAP gene.
CC
    See also Q14690-4.
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SQ
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 Best Local Similarity 100.0%; Pred. No. 3.46e-106;
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     Interleukin-1 inhibitor; inflammation therapy;
KW
KW
     immunosuppressive agent; inflamed joint.
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PN
PD
     29-NOV-1989.
     26-MAY-1989; 109540.
PF
PR
     27-MAY-1988; US-199915.
     31-AUG-1988; US-238171.
PR
     31-AUG-1988; US-238713.
PR
     23-SEP-1988; US-248521.
PR
     03-NOV-1988; US-266531.
PΑ
     (SYNE-) SYNERGEN INC.
PΙ
     Hannum CH, Eisenberg SP, Thompson RC, Arend WP, Joslin FG,
ΡI
     Sommer A;
DR
     WPI; 89-349765/48.
DR
     N-PSDB; N92441.
PΤ
     Purified interleukin-1 inhibitor - used as an immuno:suppressing
PT
     agent or to prevent tissue destruction at sites of inflammation
     Claim 18; Page 28; 53pp; English.
PS
CC
     The inventors specifically claim recombinant DNA molecule GT10-IL1i-
     2A; and the interleukin-1 inhibitors IL-1i-X. IL-1i-alpha and IL-1i-
CC
     beta. The preferred component is cDNA or a genomic polynucleotide
CC
     sequence. It includes bases 99-557 of GT10-IL1i-2A (see N92441-
CC
CC
    N92443). Also claimed is a purified interleukin-1 inhibitor (IL-1i),
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CC
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                  07-Jun-1990 #sequence_revision 07-Jun-1990 #text_change
DATE
                    23-May-1997
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                 A40956
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                  Eisenberg, S.P.; Brewer, M.T.; Verderber, E.; Heimdal, P.;
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                  Proc. Natl. Acad. Sci. U.S.A. (1991) 88:5232-5236
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                 Lennard, A.; Gorman, P.; Carrier, M.; Griffiths, S.; Scotney,
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                 Cytokine (1992) 4:83-89
                 Cloning and chromosome mapping of the human interleukin-1
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REFERENCE
                 S08160
                 Eisenberg, S.P.; Evans, R.J.; Arend, W.P.; Verderber, E.;
   #authors
                   Brewer, M.T.; Hannum, C.H.; Thompson, R.C.
   #journal
                 Nature (1990) 343:341-346
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                 Primary structure and functional expression from
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                Hannum, C.H.; Wilcox, C.J.; Arend, W.P.; Joslin, F.G.;
                  Dripps, D.J.; Heimdal, P.L.; Armes, L.G.; Sommer, A.;
                  Eisenberg, S.P.; Thompson, R.C.
                Nature (1990) 343:336-340
   #journal
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                Interleukin-1 receptor antagonist activity of a human
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                J. Biol. Chem. (1990) 265:14505-14511
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                A37822
      ##molecule_type protein
     ##residues
                    26-52;70-77;122-127;170-175 ##label BIE
     ##experimental source culture medium, PMA-stimulated THP-1 cells
GENETICS
   #gene
                GDB: IL1RN
     ##cross-references GDB:125897
   #map_position 2q14.2-2q14.2
                39/2; 69/1; 106/3
   #introns
CLASSIFICATION
                #superfamily interleukin-1
KEYWORDS
                alternative splicing; cytokine receptor; extracellular
                 protein; glycoprotein
FEATURE
  1-25
                    #domain signal sequence #status experimental #label SIG\
  26-177
                    #product interleukin-1 receptor antagonist #status
                      experimental #label MAT\
                    #binding_site carbohydrate (Asn) (covalent) #status
  109
                      experimental
SUMMARY
                #length 177 #molecular-weight 20055 #checksum 193
 Query Match
                      100.0%; Score 1109; DB 6; Length 177;
 Best Local Similarity 100.0%; Pred. No. 5.30e-206;
 Matches
           152; Conservative
                               0; Mismatches
                                              0; Indels
                                                            0;
                                                                      0;
Db
      26 rpsgrksskmqafriwdvnqktfylrnnqlvagylqgpnvnleekidvvpiephalflgi 85
         1 rpsgrksskmqafriwdvnqktfylrnnqlvagylqgpnvnleekidvvpiephalflgi 60
QУ
Db
      86 hggkmclscvksgdetrlqleavnitdlsenrkqdkrfafirsdsgpttsfesaacpgwf 145
         Qу
      61 hggkmclscvksgdetrlqleavnitdlsenrkqdkrfafirsdsqpttsfesaacpqwf 120
Db
     146 lctameadqpvsltnmpdegvmvtkfyfqede 177
         Qу
     121 lctameadqpvsltnmpdegvmvtkfyfqede 152
```

```
RESULT
ID
     P93616 standard; Protein; 165 AA.
     P93616;
AC
     14-MAR-1992 (first entry)
     Sequence encoded by bps 61-600 of interleukin-1 inhibitor
DE
     (IL-1i) gene.
     Interleukin-1 inhibitor; inflammation therapy;
KW
KW
     immunosuppressive agent; inflamed joint.
OS
     Homo sapiens.
PN
     EP-343684-A.
PD
     29-NOV-1989.
     26-MAY-1989; 109540.
PF
PR
     27-MAY-1988; US-199915.
     31-AUG-1988; US-238171.
PR
     31-AUG-1988; US-238713.
     23-SEP-1988; US-248521.
PR
PR
     03-NOV-1988; US-266531.
PA
     (SYNE-) SYNERGEN INC.
     Hannum CH, Eisenberg SP, Thompson RC, Arend WP, Joslin FG,
PΙ
PΙ
     Sommer A;
DR
     WPI; 89-349765/48.
DR
     N-PSDB; N92441.
PT
     Purified interleukin-1 inhibitor - used as an immuno:suppressing
PT
     agent or to prevent tissue destruction at sites of inflammation
PS
     Claim 18; Page 28; 53pp; English.
CC
     The inventors specifically claim recombinant DNA molecule GT10-IL1i-
     2A; and the interleukin-1 inhibitors IL-1i-X. IL-1i-alpha and IL-1i-
CC
CC
     beta. The preferred component is cDNA or a genomic polynucleotide
     sequence. It includes bases 99-557 of GT10-IL1i-2A (see N92441-
CC
CC
     N92443). Also claimed is a purified interleukin-1 inhibitor (IL-1i),
     which is active against 1 or more than 1 of IL-1alpha and IL-1beta.
CC
     Sequence
SQ
               165 AA;
  Query Match
                       100.0%; Score 1108; DB 3; Length 165;
  Best Local Similarity 100.0%; Pred. No. 1.14e-105;
  Matches
          152; Conservative
                                0; Mismatches
                                               0; Indels
                                                             0;
                                                                       0;
      14 ppsgrksskmqafriwdvnqktfylrnnqlvagylqgpnvnleekidvvpiephalflgi 73
Db
         Qу
       1 ppsgrksskmqafriwdvnqktfylrnnqlvagylqgpnvnleekidvvpiephalflqi 60
Db
      74 hggkmclscvksgdetrlqleavnitdlsenrkqdkrfafirsdsgpttsfesaacpgwf 133
         61 hggkmclscvksgdetrlqleavnitdlsenrkqdkrfafirsdsgpttsfesaacpgwf 120
Qу
Db
     134 lctameadqpvsltnmpdegvmvtkfyfqede 165
         11111111111111111111111111111111111111
Qу
     121 lctameadqpvsltnmpdegvmvtkfyfqede 152
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```
RESULT
     R35485 standard; Protein; 177 AA.
     R35485;
AC
     26-AUG-1993 (first entry)
DT
     IL-1i-2A fragment.
DE
     Interleukin-1 inhibitor; immunosuppressive; inflammation; cytokine;
KW
     collagenase.
ĸw
OS
     Homo sapiens.
FH
     Key
                     Location/Qualifiers
FT
     Peptide
                     1..25
FT
     /note= "part of N-terminal signal sequence;
FT
     claim 12, page 28"
FT
     Protein
     /label= IL-1i
FT
FT
     Modified site
                     109
     /note= "N residue that is part of a
FT
FT
     concensus N-glycosylation site"
FT
     Misc difference 26
FT
     /note= "P residue; but no P has been
FT
     detected at this position (the N-terminus)
     of form X of IL-1i; this residue may be
FT
     modified in the mature protein"
FT
PN
     EP-541920-A.
PD
     19-MAY-1993.
PF
     26-MAY-1989; 109540.
PR
     27-MAY-1988; US-199915.
PR
     31-AUG-1988; US-238713.
PR
     23-SEP-1988; US-248521.
PR
     03-NOV-1988; US-266531.
PA
     (SYND ) SYNERGEN INC.
     Arend WP, Eisenberg SP, Hannum CH, Joslin FG, Sommer A;
ΡI
PΙ
     Thompson RC;
     WPI; 93-160536/20.
DR
DR
     N-PSDB; Q40753.
PT
     New interleukin-1 inhibiting peptide and DNA - useful as
PT
     immunosuppressant for treating auto:immune and other immune
PT
     disorders
     Disclosure; Fig 14; 55pp; English.
PS
     A plaque, GT10-IL-1i-2A, was isolated from a GT10 library, using
CC
CC
     the probes given in Q40757-61.
     IL-li is useful as an immunosuppressive agent. When applied
CC
     locally it can be used to prevent tissue destruction in an inflamed
CC
CC
     joint and other inflammation sites. This protective effect may be
CC
     improved if IL-1i is given with collagenase inhibitors.
SQ
     Sequence
               177 AA;
  Query Match
                       100.0%;
                                Score 1108; DB 7; Length 177;
 Best Local Similarity 100.0%;
                                Pred. No. 1.14e-105;
 Matches
           152; Conservative
                                 0; Mismatches
                                                  0; Indels
Db
      26 ppsgrksskmqafriwdvnqktfylrnnqlvagylqgpnvnleekidvvpiephalflgi 85
          Qу
       1 ppsgrksskmqafriwdvnqktfylrnnqlvagylqgpnvnleekidvvpiephalflgi 60
Db
      86 hggkmclscvksgdetrlqleavnitdlsenrkqdkrfafirsdsgpttsfesaacpgwf 145
```